

CPC**COOPERATIVE PATENT CLASSIFICATION****B28C**

PREPARING CLAY; PRODUCING MIXTURES CONTAINING CLAY OR CEMENTITIOUS MATERIAL, e.g. PLASTER ([preparing material for foundry moulds B22C 5/00](#))

NOTE

In this subclass, the following terms or expressions are used with the meanings indicated:

"cement" or "mixtures of cement with other substance" includes plaster;

"clay" includes like ceramic compositions.

B28C 1/00

Apparatus or methods for obtaining or processing clay ([filtration in general B01D](#); [separation of solids from solids B03](#), [B07](#); [chemical part C04B](#); [by mining or quarrying E21C 41/16](#), [E21C 41/26](#), [E21C 47/10](#))

B28C 1/003

. {Plant; Methods}

B28C 1/006

.. {Methods}

B28C 1/02

. for producing or processing clay suspensions, {e.g. slip}(producing or processing suspensions in general [B01](#))

B28C 1/04

.. Producing suspensions, e.g. by blunging {or mixing; with means for removing stones}

B28C 1/06

.. Processing suspensions {i.e. after mixing}

B28C 1/08

... Separating suspensions, e.g. for obtaining clay, for removing stones; {Cleaning clay slurries}

B28C 1/082

.... {Dewatering ([B28C 1/088](#) takes precedence); Using sieves}

B28C 1/084

.... {De-aerating}

B28C 1/086

.... {Washing}

B28C 1/088

.... {by centrifugal force}

B28C 1/10

. for processing clay-containing substances in non-fluid condition ([clay slurries B28C 1/02](#)); {Plants}

B28C 1/12

.. Storing and conditioning in storage; Specially adapted storage spaces or devices for their filling or emptying; {Tower structures for the storage of clay}(feeding clay to shaping apparatus [B28B 13/00](#))

B28C 1/14

.. specially adapted for homogenising, comminuting or conditioning clay in non-fluid condition or for separating undesired admixtures therefrom ([processes involving conversion to a slurry B28C 1/02](#); [conditioning in storage B28C 1/12](#); [comminuting in general B02C](#); [chemical features in eliminating iron or lime C04B](#))

B28C 1/16

... for homogenising, e.g. by mixing, kneading; {forcing through slots}

B28C 1/18

... for comminuting {clay lumps}

B28C 1/182

.... {by forcing the clay through screens or slots, e.g. using screw or rolls}

B28C 1/185	.....	{on cylindrical or conical surfaces, e.g. on rotating drums}
B28C 1/187	....	{using co-operating rotating elements, e.g. cutters}
B28C 1/20	...	for separating undesired admixed bodies, {e.g. stones}
B28C 1/203	....	{by forcing the clay through screens or slots, e.g. having exchangeable screens or slots}
B28C 1/206	.....	{on cylindrical or conical surfaces, e.g. on rotating drums}
B28C 1/22	...	combined with means for conditioning by heating, humidifying, or vacuum treatment, {by cooling, by sub-atmospheric pressure treatment}
B28C 1/222	....	{by moistening, e.g. by steam}
B28C 1/225	....	{by degassing, de-aerating}
B28C 1/227	....	{by heating, drying}

Mixing clay or cement with other material (general arrangement or layout of plant [B28C 9/00](#); mixers in general [B01F](#); concrete paving mixers combined with distributing devices [E01C 19/00](#); machines for preparing mixtures of road-metal with bitumen [E01C 19/10](#))

NOTE

In groups [B28C 3/00](#) to [B28C 7/00](#), the following term is used with the meaning indicated:

- "mixing" includes preliminary mixing, e.g. of some of the ingredients final mixing, and agitating the mixture to prevent segregation thereof

B28C 3/00	Apparatus or methods for mixing clay with other substances (producing clay suspensions B28C 1/02)
B28C 5/00	Apparatus or methods for producing mixtures of cement with other substances, e.g. slurries, mortars, porous or fibrous compositions (controlling the mixing apparatus and supplying the ingredients B28C 7/00 {separating cement from waste concrete B03B 9/063 })
B28C 5/003	. {Methods for mixing (B28C 5/386 , B28C 5/402 take precedence)}
B28C 5/006	.. {involving mechanical aspects}
B28C 5/02	. without using driven mechanical means effecting the mixing (B28C 5/48 takes precedence)
B28C 5/023	.. { using a flexible mat or bag}
B28C 5/026	.. {Mixing guns or nozzles; Injector mixers (applying plaster by gas pressure E04F 21/12 ; both conveying and distributing concrete E04G 21/04 ; conveying concrete B65G 53/32 ; accelerating or decelerating material flow in troughs or tubes B65G 53/58)}
B28C 5/04	.. Gravitational mixing; Mixing by intermingling streams of ingredients ({ B28C 5/026 takes precedence}; ingredients projected by fluid pressure B28C 5/06)
B28C 5/06	.. the mixing being effected by the action of a fluid (in combination with driven mechanical means, producing cellular concrete B28C 5/38)

- B28C 5/08 . using driven mechanical means affecting the mixing ([B28C 5/40](#), [B28C 5/42](#), [B28C 5/48](#) take precedence; in combination with the action of a fluid [B28C 5/38](#))
- B28C 5/0806 .. {Details; Accessories}
- B28C 5/0812 ... {Drum mixer cover, e.g. lid}
- B28C 5/0818 ... {Charging or discharging gates or chutes; Sealing means}
- B28C 5/0825 ... {Drum insulating means}
- B28C 5/0831 ... {Drives or drive systems, e.g. toothed racks, winches ([B28C 7/0876](#) takes precedence)}
- B28C 5/0837 {Drives for mixers of the tilted-drum type ([B28C 5/085](#) takes precedence)}
- B28C 5/0843 {Drives for drums rotating about a horizontal axis and supported by rotating rollers ([B28C 5/085](#) takes precedence)}
- B28C 5/085 {Hydraulic drives}
- B28C 5/0856 ... {Supporting frames or structures, e.g. supporting wheels}
- B28C 5/0862 .. {Adaptations of mixing containers therefor, e.g. use of material, coatings}
- B28C 5/0868 .. {Mixing apparatus in which a mixing container is hoisted along an inclined or vertical track during mixing to discharge at a higher level}
- B28C 5/0875 .. {Mixing in separate stages involving different containers for each stage}
- B28C 5/0881 .. {having a stator-rotor system with intermeshing teeth or cages}
- B28C 5/0887 .. {provided with sieves or filters}
- B28C 5/0893 .. {Mobile mixing devices, e.g. hanging}
- B28C 5/10 .. Mixing in containers not actuated to effect the mixing
- B28C 5/12 ... with stirrers sweeping through the materials {,e.g. with incorporated feeding or discharging means or with oscillating stirrers}
- B28C 5/1207 {with means for elevating the stirrer, e.g. out of the containers}
- B28C 5/1215 {Independent stirrer-drive units, e.g. portable or mounted on a wheelbarrow}
- B28C 5/1223 {discontinuously operating mixing devices, e.g. with consecutive containers}
- B28C 5/123 {with pressure or suction means for discharging}
- B28C 5/1238 {for materials flowing continuously through the mixing device and with incorporated feeding or discharging devices (feeding or discharging devices per se [B28C 5/0818](#))}
- B28C 5/1246 {with feeding devices ([B28C 5/1276](#), [B28C 5/1292](#) take precedence)}
- B28C 5/1253 {with discharging devices ([B28C 5/1276](#), [B28C 5/1292](#) take precedence)}
- B28C 5/1261 {Applying pressure for discharging (applying pressure during mixing [B28C 5/462](#))}
- B28C 5/1269 {for making cellular concrete (in general [B28C 5/381](#))}
- B28C 5/1276 {with consecutive separate containers with rotating stirring and feeding or discharging means}
- B28C 5/1284 {having a feeding hopper and consecutive vertical or inclined mixing container fed at its upper part}
- B28C 5/1292 {with rotating stirring and feeding or discharging means fixed on the same axis, e.g. in an inclined container fed at its lower part}
- B28C 5/14 the stirrers having motion about a horizontal or substantially horizontal axis {(with feeding or discharging means [B28C 5/12](#))}
- B28C 5/141 {with container tiltable or elevatable for emptying}
- B28C 5/142 {the stirrer shaft carrying screw-blades}

B28C 5/143	.....	{for materials flowing continuously through the mixing device}
B28C 5/145	.....	{with several mixing chambers arranged one after the other}
B28C 5/146	.....	{with several stirrers with parallel shafts in one container (B28C 5/145 takes precedence)}
B28C 5/147	.....	{the material being moved perpendicularly to the axis of the shafts}
B28C 5/148	.....	{the stirrer shaft carrying a plurality of radially extending mixing bars}
B28C 5/16	....	the stirrers having motion about a vertical or steeply inclined axis {(with feeding or discharging means B28C 5/12)}
B28C 5/161	.....	{in containers tiltable for emptying in containers with inclined axes}
B28C 5/163	.....	{in annularly-shaped containers}
B28C 5/165	.....	{with stirrers having planetary motion}
B28C 5/166	.....	{Pan-type mixers}
B28C 5/168	.....	{with stirrers having planetary motion}
B28C 5/18	..	Mixing in containers to which motion is imparted to effect the mixing
B28C 5/1806	...	{rotating about an inclined axis (about a steeply inclined axis B28C 5/26)}
B28C 5/1812	....	{with rotating mixing tools}
B28C 5/1818	....	{Mobile or portable devices, e.g. on a wheelbarrow (B28C 5/1887 takes precedence)}
B28C 5/1825	...	{Mixers of the tilted-drum type, e.g. mixers pivotable about an axis perpendicular to the axis of rotation for emptying}
B28C 5/1831	....	{to be mounted on a tractor}
B28C 5/1837	....	{provided with feeding means, e.g. hoisting skips (B28C 5/1831 , B28C 5/185 , B28C 5/1856 take precedence)}
B28C 5/1843	....	{having several drums}
B28C 5/185	....	{having driven stirrers, e.g. driven from underneath}
B28C 5/1856	....	{Details or parts, e.g. drums (drives B28C 5/0831)}
B28C 5/1862	.....	{Construction of drum, e.g. provided with mixing blades}
B28C 5/1868	.....	{with mixing elements held stationary}
B28C 5/1875	.....	{Tilting means; Locks or brakes therefor}
B28C 5/1881	....	{the mixing drums being tilted otherwise than about a fixed axis perpendicular to the axis of rotation of the drum, e.g. by means of a set of links (B28C 5/08B1 , B28C 5/08B3 , B28C 5/08B5 , B28C 5/08B10 take precedence)}
B28C 5/1887	....	{Mobile or portable devices, e.g. for use by do-it-yourself enthusiasts}
B28C 5/1893	...	{the mixing drum being rotated by pulling it over the ground; the mixing drum or the stirrer being driven by movement of the wheel of a vehicle}
B28C 5/20	...	rotating about a horizontal or substantially horizontal axis during mixing, e.g. without independent stirrers
B28C 5/2009	....	{with multi-compartment drums}
B28C 5/2018	....	{Transportable containers, e.g. on a wheelbarrow, to be fixed totally or partly in a mixer, e.g. for rotation therewith}
B28C 5/2027	....	{using spiral-shaped mixing drums}
B28C 5/2036	....	{with the material travelling through the mixer, the discharge being opposite the feed inlet (B28C 5/2072 , B28C 5/22 , B28C 5/24 take precedence)}
B28C 5/2045	....	{Parts or components (drives B28C 5/0831)}

B28C 5/2054	.....	{Drums, e.g. provided with non-rotary mixing blades (B28C 5/2009 takes precedence)}
B28C 5/2063	.....	{Drums consisting of axially displaceable halves; Drums having discharging opening on their cylindrical part, e.g. the drum rotating in opposite direction for mixing or for discharging; Drums having a cylindrical part not being a surface of revolution}
B28C 5/2072	.....	{Feeding or discharging mechanisms}
B28C 5/2081	.....	{Chutes pivotable about an axis parallel to the plane of the inlet or outlet opening}
B28C 5/209	.....	{Chutes rotatable about an axis parallel to the drum axis}
B28C 5/22	....	with stirrers held stationary, {e.g. the material forming a ring zone by centrifugal force}
B28C 5/24	....	with driven stirrers
B28C 5/26	...	rotating about a vertical or steeply inclined axis during the mixing, {e.g. comprising a flat bottomplate rotating about a vertical axis, co-operating with blades or stirrers}
B28C 5/28	....	without independent stirrers
B28C 5/30	....	with stirrers held stationary
B28C 5/32	....	with driven stirrers
B28C 5/325	.....	{with several stirrer shafts}
B28C 5/34	..	Mixing on or by conveyers {e.g. by belts or chains provided with mixing elements}
B28C 5/36	...	Endless-belt mixers {i.e. for mixing while transporting the material on an endless belt, e.g. with stationary mixing elements}
B28C 5/365	....	{Mixing with driven mixing elements while transporting the mixture on an endless belt}
B28C 5/38	.	wherein the mixing is effected both by the action of a fluid and by directly-acting driven mechanical means, e.g. stirring means; {Producing cellular concrete}
B28C 5/381	..	{Producing cellular concrete (B28C 5/1269 takes precedence; producing foam B01F 3/04446 , B01F 3/04992)}
B28C 5/383	...	{comprising stirrers to effect the mixing}
B28C 5/385	....	{Stirrers specially adapted therefor}
B28C 5/386	...	{Plants; Systems; Methods}
B28C 5/388	....	{Methods}
B28C 5/40	.	Mixing specially adapted for preparing mixtures containing fibres
B28C 5/402	..	{Methods}
B28C 5/404	..	{Pre-treatment of fibres}
B28C 5/406	...	{and mixing with binding material}
B28C 5/408	..	{by spraying fibres and binding material}
B28C 5/42	.	Apparatus specially adapted for being mounted on vehicles with provision for mixing during transport ({ B28C 5/1893 takes precedence; mounted on a wheelbarrow B28C 5/1215 , B28C 5/1818 , B28C 5/2018 ;} vehicle aspect B60P 3/16)
B28C 5/4203	..	{Details; Accessories}
B28C 5/4206	...	{Control apparatus; Drive systems, e.g. coupled to the vehicle drive-system}
B28C 5/421	....	{Drives (in general B28C 5/0831)}

- B28C 5/4213 {Hydraulic drives ([B28C 5/4217](#) takes precedence)}
- B28C 5/4217 {Drives in combination with drum mountings; Drives directly coupled to the axis of rotating drums}
- B28C 5/422 {Controlling or measuring devices ([B28C 5/4227](#) takes precedence)}
- B28C 5/4224 { Roll-over prevention}
- B28C 5/4227 {Transmission control mechanisms}
- B28C 5/4231 {Proportioning or supplying water (in general [B28C 7/12](#))}
- B28C 5/4234 {Charge or discharge systems therefor}
- B28C 5/4237 {Charging, e.g. hoppers}
- B28C 5/4241 {having self-charging means, e.g. skips, scoops or buckets, picking up the material from the ground}
- B28C 5/4244 {Discharging; Concrete conveyer means, chutes or spouts therefor (in general [B28C 7/168](#))}
- B28C 5/4248 {using chutes (combined with transporting belts[B28C 5/4255](#), combined with pumps or screws[B28C 5/4258](#))}
- B28C 5/4251 {telescopic or foldable chutes}
- B28C 5/4255 {using transporting belts, e.g. mounted on a foldable frame}
- B28C 5/4258 {using pumps or transporting screws}
- B28C 5/4262 {Closures; Sealing mechanisms ([B28C 5/4237](#) takes precedence)}
- B28C 5/4265 {Mounting means for drums; Support frames}
- B28C 5/4268 {Drums, e.g. provided with non-rotary mixing blades (drums for concrete mixers with horizontal axis [B28C 5/2054](#))}
- B28C 5/4272 {with rotating drum rotating about a horizontal or inclined axis, e.g. comprising tilting or raising means for the drum ([B28C 5/4279](#) takes precedence)}
- B28C 5/4275 {with a drum rotating about a horizontal axis, e.g. perpendicular to the longitudinal axis of the vehicle}
- B28C 5/4279 {with rotating drum and independently-rotating mixing tools}
- B28C 5/4282 {with moving mixing tools in a stationary container}
- B28C 5/4286 {with mixing screw-blades}
- B28C 5/4289 {with stirrers rotating about a vertical axis}
- B28C 5/4293 {with reciprocating or oscillating stirrers (in general **B28C 5/12D**)}
- B28C 5/4296 {mounted on a tractor or on a tractor wheel (for tilted-drum type mixers [B28C 5/1831](#); charging thereof [B28C 5/4237](#))}
- B28C 5/44 Apparatus specially adapted for drive by muscle power
- B28C 5/46 Arrangements for applying super- or sub-atmospheric pressure during mixing; Arrangements for cooling or heating during mixing, {e.g. by introducing vapour}
- B28C 5/462 {Mixing at sub- or super-atmospheric pressure ([B28C 5/1261](#) takes precedence)}
- B28C 5/464 {at sub-atmospheric pressure}
- B28C 5/466 {Heating, e.g. using steam}
- B28C 5/468 {Cooling, e.g. using ice}
- B28C 5/48 wherein the mixing is effected by vibrations (mixers with vibrating mechanisms in general [B01F 11/00](#))
- B28C 5/485 {with reciprocating or oscillating stirrers; Stirrers therefor ([B28C 5/4293](#) takes

precedence)}

- B28C 7/00** **Controlling the operation of apparatus for producing mixtures of clay or cement with other substances; Supplying or proportioning the ingredients for mixing clay or cement with other substances; Discharging the mixture** {(B28C 5/42 takes precedence; feeding material in general B65G; proportioning in general G01F, G01G; controlling in general G05)}
- B28C 7/0007 . {Pretreatment of the ingredients, e.g. by heating, sorting, grading, drying, disintegrating; Preventing generation of dust}
- B28C 7/0015 . . { Tagging of the ingredients, e.g. by using ingredient identification means like RFID or labels}
- B28C 7/0023 . . {by heating or cooling (during mixing B28C 5/46)}
- B28C 7/003 . . . {Heating, e.g. using steam}
- B28C 7/0038 . . . {Cooling, e.g. using ice}
- B28C 7/0046 . {Storage or weighing apparatus for supplying ingredients (B28C 7/04 takes precedence)}
- B28C 7/0053 . . {Storage containers, e.g. hoppers, silos, bins (B28C 7/0084 takes precedences)}
- B28C 7/0061 . . . {Storage container plant}
- B28C 7/0069 . . . {having compartments}
- B28C 7/0076 . . . {Parts or details thereof, e.g. opening, closing or unloading means}
- B28C 7/0084 . . {Storage containers or silos mounted on, or specially adapted for transport by, vehicles; Means for erecting containers or silos}
- B28C 7/0092 . . {Stationary storage means having elements to divide the ground in sectors}
- B28C 7/02 . Controlling the operation of the mixing
- B28C 7/022 . . {by measuring the consistency or composition of the mixture, e.g. with supply of a missing component}
- B28C 7/024 . . . {by measuring properties of the mixture, e.g. moisture, electrical resistivity, density}
- B28C 7/026 . . . {by measuring data of the driving system, e.g. rotational speed, torque, consumed power}
- B28C 7/028 . . {by counting the number of revolutions performed, or by measuring the mixing time}
- B28C 7/04 . Supplying or proportioning the ingredients {(B28C 7/022 takes precedence; forming a predetermined ratio of the components to be mixed, in general B01F 15/04)}
- B28C 7/0404 . . {Proportioning}
- B28C 7/0409 . . . {taking regard of the moisture content of the solid ingredients; Moisture indicators}
- B28C 7/0413 . . . {two or more flows in predetermined ratio}
- B28C 7/0418 . . . {control systems therefor}
- B28C 7/0422 . . {Weighing predetermined amounts of ingredients, e.g. for consecutive delivery}
- B28C 7/0427 . . . {using a charging-skip, to be hoisted or tilted, provided with weight-indicating means}
- B28C 7/0431 . . . {using a weighing belt or the like}
- B28C 7/0436 . . . {Weighing means specially adapted for use in batching plants}

B28C 7/044	...	{Weighing mechanisms specially adapted therefor; Weighing containers (other containers B28C 7/0046)}
B28C 7/0445	...	{using a weighing receptacle, the feeding thereof being automatically suspended after a predetermined weight has been obtained (B28C 7/045 takes precedence)}
B28C 7/045	...	{using a weighing receptacle movable between several positions, e.g. moving vertically, horizontally or rotating about an axis (B28C 7/0427 takes precedence)}
B28C 7/0454	..	{Volumetric measuring devices, e.g. for consecutively delivering predetermined volumes of ingredients}
B28C 7/0459	...	{the ingredients being first supplied into measuring chambers, e.g. containers or skips}
B28C 7/0463	....	{Measuring chambers or containers therefor (other containers B28C 7/0046)}
B28C 7/0468	....	{the measuring chambers being provided on a rotating drum}
B28C 7/0472	...	{for continuous feeding, e.g. by controlling the velocity of a transporting belt or the thickness of the ingredients on the belt or by regulating the outlet of a hopper (B28C 7/0477 takes precedence)}
B28C 7/0477	...	{by using conveyer screws}
B28C 7/0481	..	{Plant for proportioning, supplying or batching (B28C 7/0436 , B28C 7/0811 take precedence; plant in general B28C 9/00)}
B28C 7/0486	...	{the plant being mobile}
B28C 7/049	....	{and broken-down for transport}
B28C 7/0495	.....	{with a frame carrying the supplying, proportioning or batching elements, movable between a horizontal transport position and an inclined working position}
B28C 7/06	..	Supplying the solid ingredients, e.g. by means of endless conveyers or jiggling conveyers
B28C 7/061	...	{from stationary storage means having elements for dividing the ground sectorially (B28C 7/0811 takes precedence)}
B28C 7/062	...	{with a pneumatic or hydraulic conveyer}
B28C 7/064	...	{Supply from sacks; Sack openers}
B28C 7/065	...	{with a pivotable charging-bin (B28C 7/068 takes precedence)}
B28C 7/067	...	{by means of stationary hoppers, chambers or bins from which the material is fed gravitationally, e.g. having agitating means therein (hoppers or bins per se B28C 7/0053)}
B28C 7/068	...	{having means to elevate or hoist a charging-bin or container}
B28C 7/08	...	by means of scrapers or skips
B28C 7/0805	....	{by means of a barrow or the like}
B28C 7/0811	....	{from stationary storage means having elements for dividing the ground sectorially}
B28C 7/0817	....	{on an endless chain}
B28C 7/0823	....	{using manually-operated cable-pulled drag shovels (B28C 7/0841 takes precedence)}
B28C 7/0829	.....	{using reciprocating cable-suspended drag shovels}
B28C 7/0835	....	{using skips to be hoisted along guides or to be tilted, to charge working-site concrete mixers (proportioning by means of a skip B28C 7/0427 , B28C 7/0459)}
B28C 7/0841	.....	{having mechanisms to fill the skip in its lowest position, e.g. by drag

		shovels, from a hopper}
B28C 7/0847	.....	{the skips being hoisted along vertical or inclined guides}
B28C 7/0852	.....	{and being tilted in their upmost position for discharging them at their upper side}
B28C 7/0858	.....	{the skips being tilted (B28C 7/0852 takes precedence)}
B28C 7/0864	.....	{about a fixed axis}
B28C 7/087	.....	{Parts; Accessories, e.g. safety devices}
B28C 7/0876	.....	{Drives therefor, e.g. winches, hydraulic drives}
B28C 7/0882	.....	{Skips}
B28C 7/0888	.....	{Vibration devices, e.g. for facilitating the emptying of the skips}
B28C 7/0894	....	{Parts, e.g. winches}
B28C 7/10	...	by means of rotary members {,e.g. inclinable screws}
B28C 7/12	..	Supplying or proportioning liquid ingredients
B28C 7/122	...	{by means of a measuring chamber, e.g. container}
B28C 7/124	....	{for use with a skip}
B28C 7/126	...	{Supply means, e.g. nozzles}
B28C 7/128	....	{Nozzles; Valves; Valve-actuating means}
B28C 7/14	.	Supply means incorporated in, or mounted on, mixers
B28C 7/16	.	Discharge means, {e.g. with intermediate storage of fresh concrete}
B28C 7/161	..	{with storage reservoirs for temporarily storing the fresh concrete; Charging or discharging devices therefor}
B28C 7/162	..	{by means of conveyers, other than those comprising skips or containers, e.g. endless belts, screws, air under pressure}
B28C 7/163	...	{using a pump}
B28C 7/165	....	{using a fluid, e.g. gas (B28C 5/06 , B28C 5/1261 take precedence)}
B28C 7/166	.....	{comprising a lock rotor with pockets for feeding determined quantities of material from a hopper into the driving fluid}
B28C 7/167	...	{by means of a screw conveyer}
B28C 7/168	...	{Discharging chutes for concrete mixers}
B28C 9/00		General arrangement or layout of plant {(B28C 7/0061 , B28C 7/0481 take precedence)}
B28C 9/002	.	{Mixing systems, i.e. flow charts or diagrams; Making slurries; Involving methodical aspects; Involving pretreatment of ingredients; Involving packaging}
B28C 9/004	..	{Making slurries, e.g. with discharging means for injecting in a well or projecting against a wall}
B28C 9/006	.	{comprising a multicompartment silo with the mixing device, e.g. a mixing screw, fitted directly at the underside of the silo, e.g. with proportioning means at the exit of the silo}
B28C 9/008	.	{Plant adapted for mixing materials lying on the ground, e.g. in sectors (B28C 9/0436 takes precedence)}

- B28C 9/02 . for producing mixtures of clay or cement with other materials
- B28C 9/04 . the plant being mobile, {e.g. mounted on a carriage or a set of carriages}(B28C 5/42, {B28C 9/004, B28C 9/006} take precedence)
- B28C 9/0409 . . {and broken-down for transport (B28C 9/0445 takes precedence)}
- B28C 9/0418 . . . [N. with a storage silo movable between a horizontal transport position and a vertical working position]
- B28C 9/0427 . . . {with a frame carrying the supplying and mixing elements movable between a horizontal transport position and an inclined working position}
- B28C 9/0436 . . {Plant adapted for mixing material lying in sectors on the ground}
- B28C 9/0445 . . . {and broken-down for transport}
- B28C 9/0454 . . {Self-contained units, i.e. mobile plants having storage containers for the ingredients (B28C 9/0472, B28C 9/0481 take precedence)}
- B28C 9/0463 . . . {with a mixing discharge trough with a free end, e.g. provided with a mixing screw or pivotable about a vertical or horizontal axis}
- B28C 9/0472 . . {provided with two or more carriages for storing the ingredients or for the mixing device, e.g. transportable on rails}
- B28C 9/0481 . . {with means for loading the material from ground level to the mixing device, e.g. with an endless conveyer or a charging skip (B28C 9/0436 takes precedence)}
- B28C 9/049 . . . {with at least a storage compartment for one of the ingredients}